

Wednesday, 19 February 2014

Session 14: Continuing Education Courses (Part VII)												
Course No	CEC 1	CEC 2	CEC 3	CEC 4	CEC 5	CEC6	CEC 7	CEC 8	CEC 9	CEC 12	CEC 13	CEC 14
Course Title	World of Medical Physics	Breast Cancer	Advanced RT Techniques	MRI in Practice	Women's Breast Imaging	Advanced Diagnostic Imaging Techniques	Advanced Nuclear Medicine Techniques	SPECT, PET & CT for Technologists	Health Informatics	Introduction to Radiation Medicine	Radiation Protection & Radiobiology	Scientific Writing & Publishing
Venue	AlFardousa	AlLazurd	Hall C	AlZumurrud	AlMasmak	Buraidah Hall	AlYaqoot	Oasis	Qasr Khozam	AlHareeq	Hall A	AlHaief
Coordinator	Slobodan Devic, PhD	Yasser Khafaga, MD	Rana Mahmood, MD	Nabeel Mishah, MBA	Nuha Khoumais, MD	Lamia Jamjoom, MD	Mahmoud Tuli, MD	Gary Sayed, PhD	Metab Alkubeyyer, MD	Belal Mofteh, PhD	Ghazi Alsbeih, MD, PhD	Peter Hall, MD, PhD
Chairpersons	Jazi Al-Mokhleef, MSc	Osama AlMalik, MD, Ihab Anwar, MD	Adnan AlHebshi, MD, Eyad Alsaeed, MD,	John Talbot, MSc; Cathy Westbrook, MSc	Noor Alnaimy, MD; Asma Tulbah, MD	Lamia Jamjoom, MD; Mohammad Badran, MD	Ghulam Khan, MD; Salem Sassi, PhD	Khalid Abdulhafeed, BSc	Nabeel Mishah	Abdelhamid Saoudi, PhD	Ibrahim Al-Anzi, MSc	Peter Hall, MD, PhD; Hilary Russell, PhD
CEC Lecture 8:10-8:30 AM	L21: Tutorial on Health Physics William Parker	L9: Intraoperative Radiotherapy in Breast Cancer: The TARGIT Evidence Pedro Lara	L9: Total Skin Electron Therapy (TSET) and Total Body Irradiation Shan Yau	L13: Gradient Echo I Cathy Westbrook	L7: The Use of Breast US in 2014 Nathalie Duchesne	L9: CT of Pelvic Hernias, Indirect Inguinal Hernia, Direct Inguinal Hernia, Obturator Hernia, Spigelian Hernia Francis Scholz	L9: Introduction to Internal Dosimetry for Molecular Radiotherapy Manuel Bardies	L8: Our Profession and Professionalism Elwin Tilson	L9: Workflow Engines and Content Management Systems: The Next Step for Imaging Departments Bradley Erickson	L22: Radiation Emergencies and Incidents David Lloyd	L9: Optimization of Protection in Mammography Ibraheem Al-Anazi	L9: Submitting your Manuscript Peter Hall
CEC Lecture 8:30-8:50 AM	L22: Tutorial on Electron Beam Therapy William Parker	L10: Intraoperative Radiotherapy (IORT) in Breast Cancer Using Electrons Sergio Maluta	L10: Motion Management in Radiotherapy Tomas Kron		L8: Radiology Pathology Correlation Following Breast Biopsy Nanthalie Duchesne	L10: Advanced Imaging in Cerebral AVM from Diagnostic to Endovascular Treatment Raphael Blanc	L10: Clinical applications of Internal Dosimetry to Molecular Radiotherapy Glenn Flux	L9: National and Regional Professional Resources for Technologists Essam Mattar	L10: PACS Implementation Strategy Kostas Chantziantoniou	L23: Future Needs of Medical Physics Services in the Kingdom Refaat AlMazrou	L10: Radiation Protection at Hadron Therapy Facilities Ibrahim Algain	L10: Dealing with Rejection Peter Hall
CEC Lecture 8:50-9:10 AM	L23: Second Practical Examination Ervin Podgorsak	L11: Regional Lymph Nodes Radiation: Indications and Complications Alphonse Taghian	L11: IOERT Protocol Studies: Challenges in Implementation Donald Goer		L9: Digital Breast Tomosynthesis Ruud Pijnappel	L11: Closed Loop and Internal Hernia Obstructions Francis Scholz	L11: Digital PET/CT- clinical application Medhat Osman	L10: International Professional Resources for Technologists Elwin Tilson, Richard States	L11: Saudi e-health Exchange and the Interoperable Electronic Health Record (iEHR) Ammar Al-Badarneh	L24: Vendor neutral archive N. Nishant	L11: An Overview of Biological Dosimetry David Lloyd	L11: Publication Ethics Hilary Russell
CEC Lecture 9:10-9:30 AM		L12: CT-based Treatment Planning: Defining the Target for Breast Radiation Alphonse Taghian	L12: Androgen Suppression and Radiation in the Treatment of Prostate Cancer: Why Do We Sequence Them the Way We Do?" Theodore DeWeese		L12: Making CT Protocol: Recipe of the Just Right Scanning Ingredients Mannudeep Kalra	L12: Impact of ¹³¹ I SPECT-CT on Nodal Staging of Differentiated Thyroid Carcinoma M. F. Ben Slimene	L11: Graduate Education Opportunities for Technologists Gary Sayed	L12: Saudi National Digital Image Sharing and Tele-Radiology Platform Moneif Eid	L25: Future Opportunities in Radiation Medicine Abdelhamid Saoudi	L12: National Biodosimetry Laboratory in Saudi Arabia Ghazi Alsbeih	L12: Overview and Discussion Peter Hall, Hilary Russell	
9:30-9:45 AM	Coffee Break											

9:45 AM -12:15 PM	Session 15: Plenary Keynote Lectures III Venue: Buraidah Auditorium Chairpersons: Imaddudin Kanaan, MD and Amani Alkofide, MD	
9:45-10:15 AM	PKN Lecture 9 Radiation Sciences: Unique Opportunities in Service to Society Norman Coleman, MD	
10:15-10:45 AM	PKN Lecture 10 Craniopharyngioma: Disease Control and Late Effects Thomas Merchant, MD	
10:45-11:15 AM	PKN Lecture 11 CT Radiation: The Serious and the Care Worthy Risks Mannudeep Kalra, MD	
11:15-11:45 PM	PKN Lecture 12 Hazard or Risk Based Quality Management Program: The Next Frontier for Improving Quality and Patient Safety Mohammed Saiful Huq, PhD	
11:45-12:15 PM	PKN Lecture 13 The Intersection of Informatics and Medical Imaging Bradley Erickson, MD	
12:15-12:30 PM	Closing Ceremony Sultan AlSedairy, PhD – Executive Director KFSH&RC	
12:30-1:30PM	Prayer and Lunch Break	
1:15 PM	Bus Pick-up to King Faisal Specialist Hospital & Research Centre	
Venue: King Faisal Specialist Hospital & Research Centre		
1:45 – 5:55 PM	Session 16: Continuing Education Courses & Workshop (Part VIII)	
Code	CEC4	
Workshop Title	MRI in Practice	
Venue	KFSH&RC, PGC Auditorium	
Coordinator	Nabeel Mishah, MBA	
Chairperson	John Talbot, MSc; Cathy Westbrook, MSc	
1:45-3:30 PM	L14: Gradient Echo II Cathy Westbrook	
3:30 – 4:00 PM	Prayer and Coffee Break	
4:00-5:00 PM	L15: Flow & MRA John Talbot	
5:00-5:50 PM	L16: Quiz John Talbot	
		Session 17: WORKSHOPS (Part I) (See Below)
7:30 PM	Bus Pick-up to Intercontinental Hotel	
8:00-10:00 PM	Evening Presentation and Dinner Sponsored by GE Venue: Intercontinental Hotel	

Session 17: Workshops (Part I): 1:30 PM – 5:30 PM

Code	Venue	Workshop Title	Coordinator
RADIATION ONCOLOGY TRACK			
CEC1W1	RC Classroom 304	World of Medical Physics <ul style="list-style-type: none"> • Introduction to Monte Carlo Simulations, <i>Pedro Andreo</i> • Introduction to Radiochromic Film Dosimetry, <i>Slobodan Devic</i> • Introduction to 3D Gel Dosimetry • Introduction to QA devices 	Dr. Waleed Al-Najjar
CEC1W2	RC Classroom 304	Monte Carlo <ul style="list-style-type: none"> • Available Monte Carlo Codes in Radiotherapy • Overview of Electron and Photon Transport • Monte Carlo Applications in Nuclear Medicine • What is "GATE" MC Code? • PRIMO - New MC Application 	Mr. Ahmad Nobah
CEC1W3	RC Classroom 304 and Linear Accelerator Treatment Room 4 (T4)	QA & Mechanical Dosimetry Devices <ul style="list-style-type: none"> • QA in Radiation Therapy • AAPM TG 142 • Patient specific QA • Practical Sessions 	Dr. Zeinab Hassan
CEC1W4	RC Classroom 304 and 3D Gel Lab	3D Gel Dosimetry <ul style="list-style-type: none"> • Preparation of 3D gel • Optical CT scanning of the gel • Calibration and patient specific QA • Practical Sessions 	Mr. Abdullah Al-Kafi/ Eng. Akram Al-Moussa
CEC1W5	RC Classroom 304 and Tomotherapy/CyberKnife Treatment Planning Room and Linear Accelerator Treatment Room 4 (T4)	Radiochromic Film Dosimetry <ul style="list-style-type: none"> • Absolute, reference and relative dosimetry. • Applications of radiochromic films in dosimetry. • Essentials of radiochromic film dosimetry system. • New trends in radiochromic film dosimetry • Practical Sessions 	Mr. Saad Aldelaijan
CEC2W1	Oncology Lecture Hall	Breast Cancer <ul style="list-style-type: none"> • Review of clinical cases with emphasis on indications, target volumes, organs at risk, and dose constraints 	Dr. Mohammad Alshabanah
CEC3W1	Radiation Physics Conference Room	RapidArc <ul style="list-style-type: none"> • Physics Perspective on Rapid Arc, <i>Martin Sabel</i> • Physician Perspective on Rapid Arc, <i>Abdullah Al Suhaibani</i> • Dosimetrist Perspective on Rapid Arc, <i>Christine Higby</i> • Practical Sessions 	Ms. Christine Higby
CEC3W2	Oncology Conference Room	CyberKnife <ul style="list-style-type: none"> • CKS SRS – Radiobiology (& tissue tolerances), <i>Adnan AlHebshi</i> • CKS overview/Physics, <i>Abrar Hussain</i> • Practical Sessions 	Dr. Abrar Hussain
CEC3W3	TomoTherapy Planning Room	TomoTherapy <ul style="list-style-type: none"> • Physics of Using a Helical Treatment System, <i>Maamoun Shehadah</i> • Tomotherapy Process, <i>Wedyan Safar</i> • Clinical Experience Using Tomotherapy at KFSH&RC, <i>Amin Al Omair</i> • Practical Sessions 	Mrs. Wedyan Safar

CEC3W4	RC Executive Board Room, CT Simulator Room	IGRT for Radiation Therapists <ul style="list-style-type: none"> • Introduction To IGRT, <i>Julie Pickford</i> • Image Guided Radiation Therapy: Clinical Issues, <i>Arno Mundt</i> • Image Guided Radiation Therapy: Practical Issues, <i>Tomas Kron</i> • Impact of IGRT on Dose and Fractionation, <i>Ahmad Nobah</i> • Technology and Immobilization Overview, <i>Mona Al Turaiki</i> • Practical Sessions 	Mrs. Sameha J Pickford
CEC3W5	A2 Conference Room / OR20	Intra-Operative Radiotherapy <ul style="list-style-type: none"> • Clinical and surgical aspect of IORT, <i>Tarek Amin</i> • Radiation oncology aspect of IORT, <i>Rana Mahmood</i> • IOERT for recurrent rectal cancer and for retroperitoneal sarcoma, <i>Benjamin Calvo</i> • IOERT Protocol Studies: Challenges in Implementation, <i>Donald Goer</i> • Physics aspects of IORT, <i>Abrar Hussain</i> • Practical Sessions 	Mrs. Hind Alselham
CEC3W6	ORA Meeting Room	Brachytherapy <ul style="list-style-type: none"> • Brachytherapy for Gynecology: Clinical Aspects, <i>Rana Mahmood</i> • Adapting HDR brachytherapy for unusual anatomy of gynecological malignancies, <i>Majid Mohiuddin</i> • Image guided brachytherapy, <i>Slobodan Devic</i> • Comparison between the miniature HDR Brachytherapy sources Co-60 and Ir-192 used in the MultiSource HDR Brachytherapy Afterloader, <i>Joop Bokhorst</i> 	Mr. Umar Mwidu

DIAGNOSTIC IMAGING TRACK

CEC5W1	PGC Foyer	Ultrasound Pelvic Imaging <ul style="list-style-type: none"> • Basic trans-abdominal/ transvaginal pelvic ultrasound examination • Measurement of the endometrial thickness • US imaging in early pregnancy • Practical Sessions 	Dr. Rafat Mohtasib
CEC5W3	Radiology Conference Room, Radiology Meeting Room, MR Suite	MRI Guided Breast Biopsy <ul style="list-style-type: none"> • MR guided breast biopsy • Practical Sessions 	Mr. Ibrahim Alabdulaaly
CEC5W4	US Room 8/3	Ultrasound Guided Breast Biopsy <ul style="list-style-type: none"> • Ultrasound guided Breast biopsy and cyst aspiration • Practical Sessions 	Dr. Rita Pant
CEC5W7	PGC Meeting Room 1	Contrast Enhanced Spectral Mammography / Digital Breast Tomosynthesis: <ul style="list-style-type: none"> • Basic concept of Contrast enhanced spectral Mammography • Practical Sessions 	Dr. Nuha Khoumais
CEC5W8	US Room 8	Automated Whole Breast Ultrasound <ul style="list-style-type: none"> • Automated Whole Breast Ultrasound • Practical Sessions 	Mrs. Manal Mustafa

CEC6W1	PGC Classroom 7	Basic Cardiac CT <ul style="list-style-type: none"> • Didactic lectures about cardiac CT anatomy, techniques and common pathologies. • Hands-on real time reading of cardiac CT cases. • Practical Sessions 	Dr. Amr Ajlan
CEC6W2	PGC Classroom 4	Read with the Expert in Body Imaging <ul style="list-style-type: none"> • Miscellaneous chest / thoracic cases, <i>Mohamed Tan-Lucien</i> • Crohn's disease - radiological pathological correlation, <i>Francis Scholtz</i> • MR enterography technique and appearances, <i>Salahudin Elnaas</i> • Inflammatory diseases of small bowel + Miscellaneous SB diseases, <i>Francis Scoltz</i> 	Dr. Salahudin El Naas
CEC6W3	PGC Classroom 1	Read with the Expert in Neuroradiology <ul style="list-style-type: none"> • Interesting Cases in Neuroradiology, <i>Mohammad Dogar</i> • Unusual cases in Neuroradiology, <i>Irfan Mamoun</i> • TBA, <i>Bradley Erickson</i> • TBA, <i>Ibrahim Alorainy</i> 	Dr. Irfan Mamoun
CEC6W4	PGC Classroom 8	Low Dose and Dual Energy CT Imaging <ul style="list-style-type: none"> • Making CT protocols: Recipe of the "just right" scanning ingredients, • Dual energy CT: Approaches, Radiation and Applications, • Iterative Reconstruction: The new standard for CT. • Practical Sessions 	Dr. Mohamed Ziyad Abubacker
CEC7W1	RC BPD Conference Room	Radionuclide Dosimetry <ul style="list-style-type: none"> • Patient specific vs model-based dosimetry, <i>Manuel Bardies</i> • Personalized treatment planning for Molecular Radiotherapy, <i>Glenn Flux</i> • Presentation on Monte Carlo techniques for imaging and dosimetry • Introduction to practical session • Practical Sessions 	Dr. Salem Sassi
CEC7W2	RC BMR Conference Room	Cyclotrons & Radiopharmaceuticals <ul style="list-style-type: none"> • Introduction to Cyclotrons: Principles and Recent Developments, • Introduction to FDG • Quality Aspects of Radiopharmaceuticals with Focus on FDG • Radiopharmaceuticals for targeted therapy: Basics and Clinical aspects • ^{68}Ge-^{68}Ga Generator • Cell's Labelling • Research and development of $^{99\text{m}}\text{Tc}$ labeled peptide radiopharmaceuticals for targeting of cancer • Practical Sessions 	Dr. Faisal Al Rumayan / Mr. Mohammed Alrowaily
CEC7W3	RC BESC Conference Room	PET/CT QC/QA <ul style="list-style-type: none"> • Daily PET and CT QC procedures. • Quarterly calibration. • Simulation of the SUV verification scans using a water phantom. • Practical Sessions 	Dr. Omer Demirkaya
CEC7W4	Treatment Planning Room	PET/CT in Treatment Planning <ul style="list-style-type: none"> • Applications of PET-CT in treatment planning • Practical Sessions 	Dr. Mohei Eldin Abouzied
CEC8W1	PGC Classroom 3	A panoramic overview of OB/GYN and emergency US for technologists <ul style="list-style-type: none"> • Practical Sessions 	Mr. Ahnaf Arafah
CEC8W2	PGC Classroom 3	SPECT/CT for Technologist <ul style="list-style-type: none"> • SPECT/CT Imaging, <i>Richard States</i> • PET/CT Imaging, <i>Elwin Tilson</i> • Practical Sessions 	Mr. Mohammed Alrowaily

RADIOBIOLOGY, RADIATION PROTECTION & OTHER TOPICS

CEC12W1	PGC Classroom 3, tour of medical physics, radiotherapy, cyclotron & radiopharmaceutical and radiology facilities	Introduction to Radiation Medicine <ul style="list-style-type: none"> • Modalities of Radiation Therapy and Radiology and Their Capabilities. • Role of Personnel for Different Radiotherapy and Radiology Modality. • Choice of Different Modalities. • Practical Sessions 	Mr. Refa'at AlMazrou
CEC13W1	PGC MR2	Radiobiology and Biodosimetry <ul style="list-style-type: none"> • Radiobiological dose-effect • Cell survival curves • Molecular biology techniques • Principles of biological dosimeters • Accidental radiation dosimetry • Practical Sessions 	Dr. Ghazi AlSbeih
CEC13W2	Prince Salman Auditorium, tour of radiation protection facilities and devices	Radiation Protection & Safety <ul style="list-style-type: none"> • Thermo-Luminescence Dosimeter (TLD) • Bioassay: thyroid uptake measurement • Radiation leak test • Management, storage and disposal of radioactive waste • Gamma Source Shielding Design • Practical Sessions 	Mr. Fareed Mahyoub

Thursday, 20 February 2014

8:00 AM-12:00 NN	Session 18: Continuing Education Courses & Workshops (Part IX)	
Code	CEC10W1	
Workshop Title	Joint WHO/ IAEA/KFSH&RC Workshop: Basic Safety Standards (BSS) Implementation in Health Care	
Venue	KFSH&RC, Treatment Planning Room	
Coordinator	María Pérez, MD / Jehad AlWatban, MD	
Chairperson	Nizar Al-Nakshabandi, MD	
8:00-8:05 AM	L1: Welcome Remarks and Introduction of Speakers , Belal Mofteh	
8:05-8:20 AM	L2: Medical Uses of Ionizing Radiation, Trends, Doses and Risks Jerrold Bushberg	
8:20-8:35 AM	L3: Improving Radiation Protection in Medicine- the Bonn Conference and its Call for Action María Pérez	
8:35-8:50 AM	L4: Overview of the BSS Revision Process, New General Safety Requirements María Pérez	
8:50-9:00 AM	L5: Specific Safety Requirements for Medical Imaging & Therapeutic Procedures María Pérez	
9:00-9:10 AM	L6: The new International Basic Safety Standards: How Will it Affect The Medical Physics Practice? Ahmed Meghzifene	
9:10-9:30 AM	L7: Discussion	
9:30-10:00 AM	Coffee Break	Session 19: WORKSHOPS (Part II) (See Below)
10:00-10:10 AM	L8: Patient Protection in Radiotherapy: Perspective of a Radiation Oncologist Mohammad Al-Shabanah	
10:10-10:20 AM	L9: Patient Protection in Interventional Radiology: Perspective of an Interventional Radiologist Jehad Al-Watban	
10:20-10:30 AM	L10: Patient Protection in Nuclear Medicine: Perspective of a Nuclear Medicine Specialist Mahmoud Tuli	
10:30-10:40 AM	L11: Practical Aspects of Radiation Protection in PET/CT Imaging Ahmad Alenezi	
10:40-10:50 AM	L12: Patient Dose Reduction in Interventional Radiology Sjirk Boon	
10:50-11:00 AM	L13: Towards Low Dose CT for Pediatrics and Adults Mannudeep Kalra	
11:00-11:15 AM	L14: Role of Professional Societies Panel Discussion	
11:15-11:30 AM	L15: Education and Training Panel Discussion	
11:30-11:45 AM	L16: Communication with Patients and Media Panel Discussion	
11:45-12:00 PM	L17: Role and Impact of Regulation - Fostering a dialogue between health authorities and regulatory bodies Panel Discussion	
12:00 AM-12:45 PM	Closing Ceremony/Distribution of Certificates Venue: Prince Salman Auditorium	
12:45-1:30 PM	Prayer and Lunch, Venue: <i>RC 1st Floor</i>	
1:30-8:00 PM	Bus Pick-up from KFSH&RC North Tower Entrance to Al-Thumama Desert Camp, Falcon and Camel Show, and Dinner	